

BookletChart™

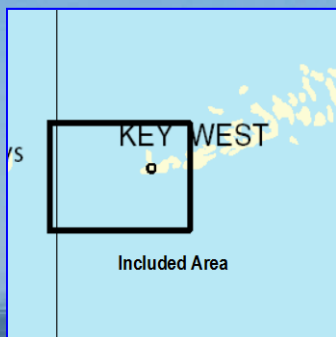
Key West Harbor and Approaches

NOAA Chart 11441

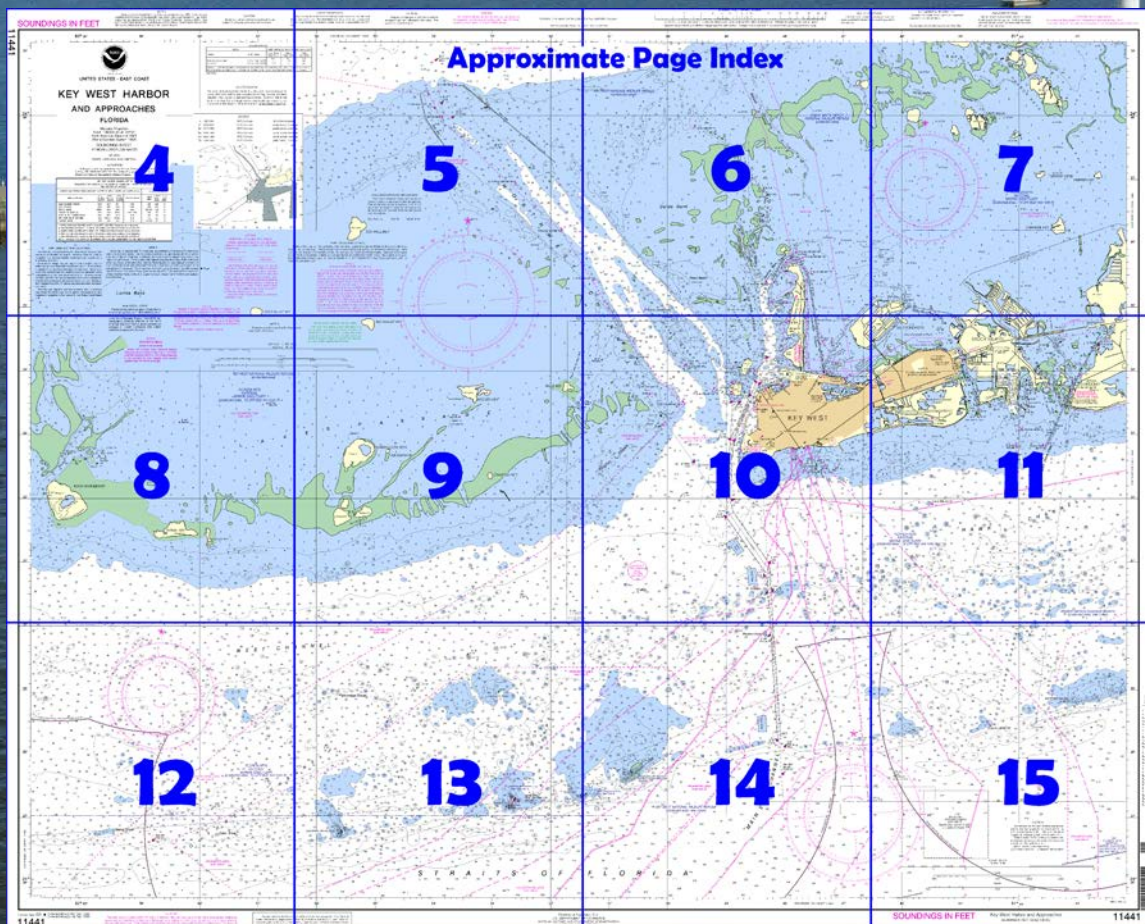


A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

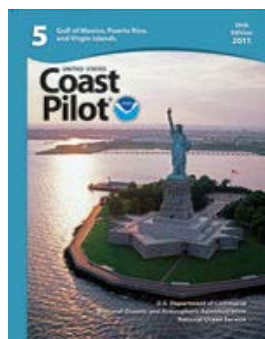
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=11441>.



(Selected Excerpts from Coast Pilot)

Key West Harbor is 134 miles and 151 miles southwestward of Miami Harbor via the inside and coastwise routes, respectively. The harbor proper lies in front of the city of Key West, protected on the eastern side by the island and on the other sides by reefs, sand flats, and by **Wisteria Island** and **Tank Island**. The harbor is entered through breaks in the reef by several principal channels with depths of 13 to 34 feet, and by several minor channels.

Key West, on the island of the same name near the western end of the Florida Keys, is a winter resort. Commercial fishing is one of the leading industries, but commerce is mostly in crude and refined oils. Cruise ships

frequently call here, and the harbor is a safe haven for any vessel.

Prominent features.—Easy to identify when standing along the keys are 300-foot-high radio towers about 0.3 mile eastward of Fort Taylor, the hotel 0.3 mile south of Key West Bight, the cupola close south of the hotel, and a 110-foot-high abandoned lighthouse, 0.5 mile east-northeastward of Fort Taylor. Numerous tanks, lookout towers, and masts are prominent, but difficult to identify. Also conspicuous is a white radar dome and an aerobeacon on Boca Chica Key, and the white dome of the National Weather Service station and the aerobeacon at Key West International Airport. From southward, several apartment complexes, condominiums, and hotels on the south shore extending from just west of Key West International Airport to the abandoned lighthouse are prominent.

Sand Key Light (24°27'14"N., 81°52'39"W.), 109 feet above the water, is shown from a white, square, pyramidal, skeleton tower enclosing a stair cylinder and square dwelling.

Sand Key is surrounded by a section of the **Area To Be Avoided Off the Coast of Florida**. See Area To Be Avoided Off the Coast of Florida, indexed as such, chapter 3.

Channels.—**Main Ship Channel** is the only deep-draft approach to Key West. Federal project depth is 34 feet from the Straits of Florida to a turning basin off the Naval Air Station Truman Annex Mole and inside the annex basin, thence 30 feet to an upper turning basin off Key West Bight, and thence 12 feet to and including a turning basin in the bight. (See Notice to Mariners and latest editions of the charts for controlling depths.) The channel from the entrance to the upper turning basin is marked by lighted ranges and other aids to navigation. Spoil areas are W of the channel.

Northwest Channel is a medium-draft passage between Key West Harbor and the Gulf of Mexico. In 2002, the midchannel controlling depth was 10 feet. Vessels can pass directly across the reefs from the Gulf to the Straits of Florida by way of Northwest Channel and Main Ship Channel. The Gulf end of the channel is shifting westward. The jetties on either side of the Gulf entrance to Northwest Channel are 0.3 to 0.5 mile from the centerline of the channel, and only the outer part of the east jetty shows above low water. The northwest end of the jetty is marked by a light. The channel is marked by a **166°** lighted range, daybeacons, and lighted and unlighted buoys. The pilings and skeletal structure of a former lighthouse are about 0.3 mile southwestward of the south end of the west jetty.

Smith Shoal (see chart 11439), about 4.5 miles northward of the northern entrance to Northwest Channel, is covered 11 feet and marked on its northeast end by **Smith Shoal Light** (24°43'06"N., 81°55'18"W.). The light also marks the northern approach to the channel and is shown from a small black house on a white, hexagonal, pyramidal skeleton tower on piles. A relatively flat-topped coral head, covered by a least depth of 11 feet, is about 3.3 miles west-southwestward of the light.

Southwest Channel, a convenient approach to Key West from southwestward, has been swept to a depth of 23 feet and is marked by buoys. In 1961, this depth was confirmed for midchannel. A general course following the aids leads to the outer anchorage and Main Ship Channel. Strangers should not attempt passage at night.

West Channel, a passage leading westward from Key West between the keys and outer reefs, is deep but unmarked. It is used by shrimp boats and small craft bound toward the Dry Tortugas. Local knowledge is advised.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC New Orleans

Commander

8th CG District

New Orleans, LA

(504) 589-6225

Navigation Managers Area of Responsibility



NOAA's navigation managers serve as ambassadors to the maritime community.

They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit nauticalcharts.noaa.gov/service/navmanagers

To make suggestions or ask questions online, go to nauticalcharts.noaa.gov/inquiry.

To report a chart discrepancy, please use ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx.

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area.

These volumes are available online at <http://www.navcen.uscg.gov>

SOUNDINGS IN FEET

NOTE S
Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

CAUTION
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

Report all sp
Response Cent
Coast Guard fa
153).



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - EAST COAST

FLORIDA

KEY WEST HARBOR

AND APPROACHES

Mercator Projection
Scale: 1:30,000 at Lat. 24°32'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

HEIGHTS
Heights in feet above Mean High Water.

KEY WEST HARBOR CHANNEL DEPTHS				
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2012 AND SURVEYS TO SEP 2012				
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY
MAIN CHANNEL RANGE	31.6	35.0	35.4	9-12
CUT A RANGE	34.6	34.7	34.2	9-12
CUT B RANGE	33.8	35.7	34.8	9-12
THENCE TO BUOY 23	32.3	31.7	332.6	9-12
BUOY 23 TO TURNING BASIN	30.1	30.2	30.5	9-12
KEY WEST LIGHT CHANNEL	15.6	C, E 13.8	D 13.3	9-12
TURNING BASIN	12.8	14.2	13.8	9-12

A. CORAL HEAD LOCATED WITH A DEPTH OF 32 FEET, LOCATED AT 24°51'46.8"N, 81°48'56.7"W.
B. OBSTRUCTION LOCATED WITH A DEPTH OF 30 FEET, LOCATED AT 24°53'30.9"N, 81°48'35.3"W.
C. OBSTRUCTION LOCATED WITH A DEPTH OF 14 FEET, LOCATED AT 24°53'47.2"N, 81°48'16.8"W.
D. OBSTRUCTION LOCATED WITH A DEPTH OF 25 FEET, LOCATED AT 24°53'44.7"N, 81°48'26.2"W.
E. OBSTRUCTION LOCATED WITH A DEPTH OF 13 FEET, LOCATED AT 24°53'49.4"N, 81°47'58.6"W.

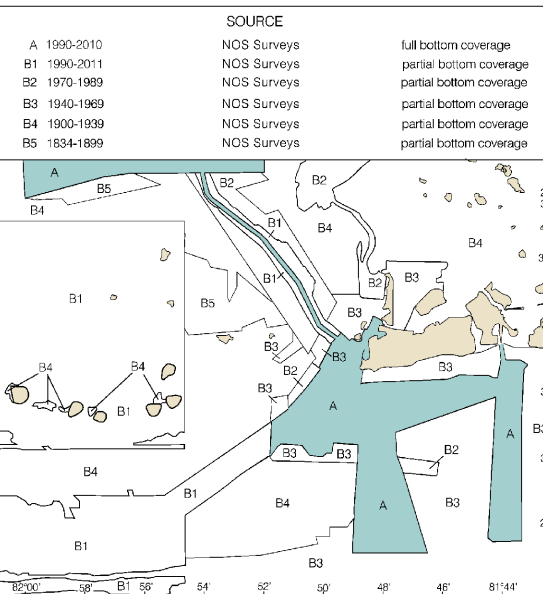
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

TIDAL INFORMATION		Height referred to datum of soundings (MLLW)		
PLACE	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
Sand Key Lighthouse	(24°27'N/081°53'W)	feet 1.7	feet 1.4	feet 0.2
Key West	(24°33'N/081°49'W)	feet 1.8	feet 1.5	feet 0.2

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from <http://tidesandcurrents.noaa.gov/> (Feb 2013)

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and National Geospatial-Intelligence Agency.

SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.



CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area
Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.

NOAA and its critical corrections are available about Print-on-Demand OceanGraphics at <http://www.noaa.gov/oceangraphics>

HURRICANES AND TROPICAL STORMS
Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations.

Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered or moved.

Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard unit.

NOTE X
Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

Lavina Bank
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 1.528" northward and 0.668" eastward to agree with this chart.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilots 4 and 5. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 7th Coast Guard District in Miami, Florida, or at the Office of the District Engineer, Corps of Engineers in Jacksonville, Florida.
Refer to charted regulation section numbers.

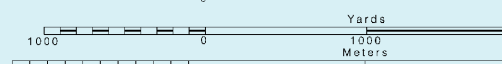
NOTE E
PROHIBITED AREAS
(Areas to be avoided)
Under the Florida Keys National Marine Sanctuary and Protection Act, Pub. L. 101-605 and IMO advisory SN/Circ. 145, these areas are to be avoided by tank vessels and vessels greater than 50 meters in length.

Joins page 8

LITTLE MULLET KEY

NOTE C
Numerous submerged piles have been reported in this area.

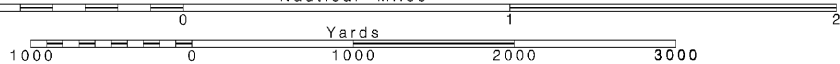
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Nautical Miles



Printed at reduced scale.

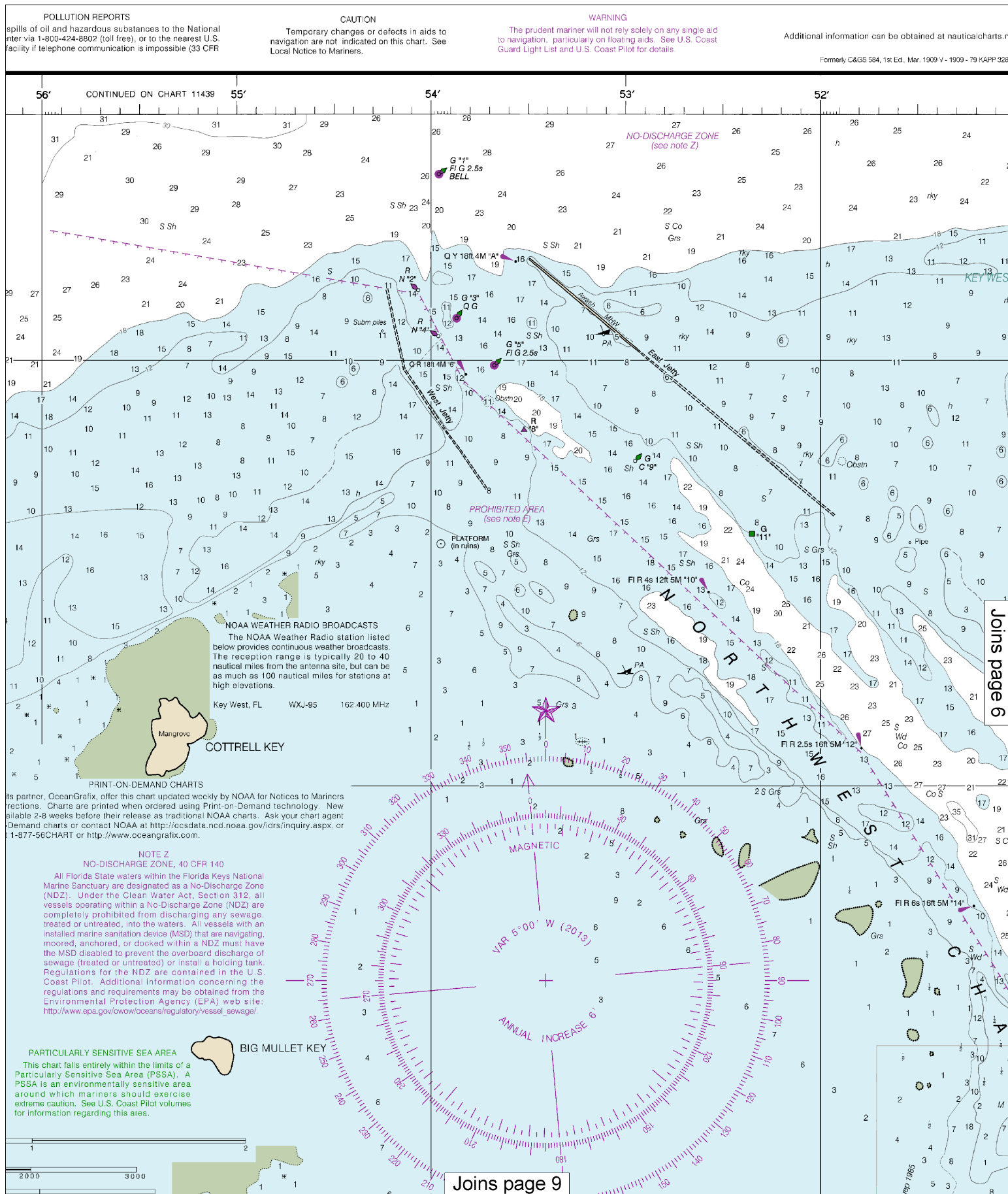
SCALE 1:30,000
Nautical Miles

See Note on page 5.

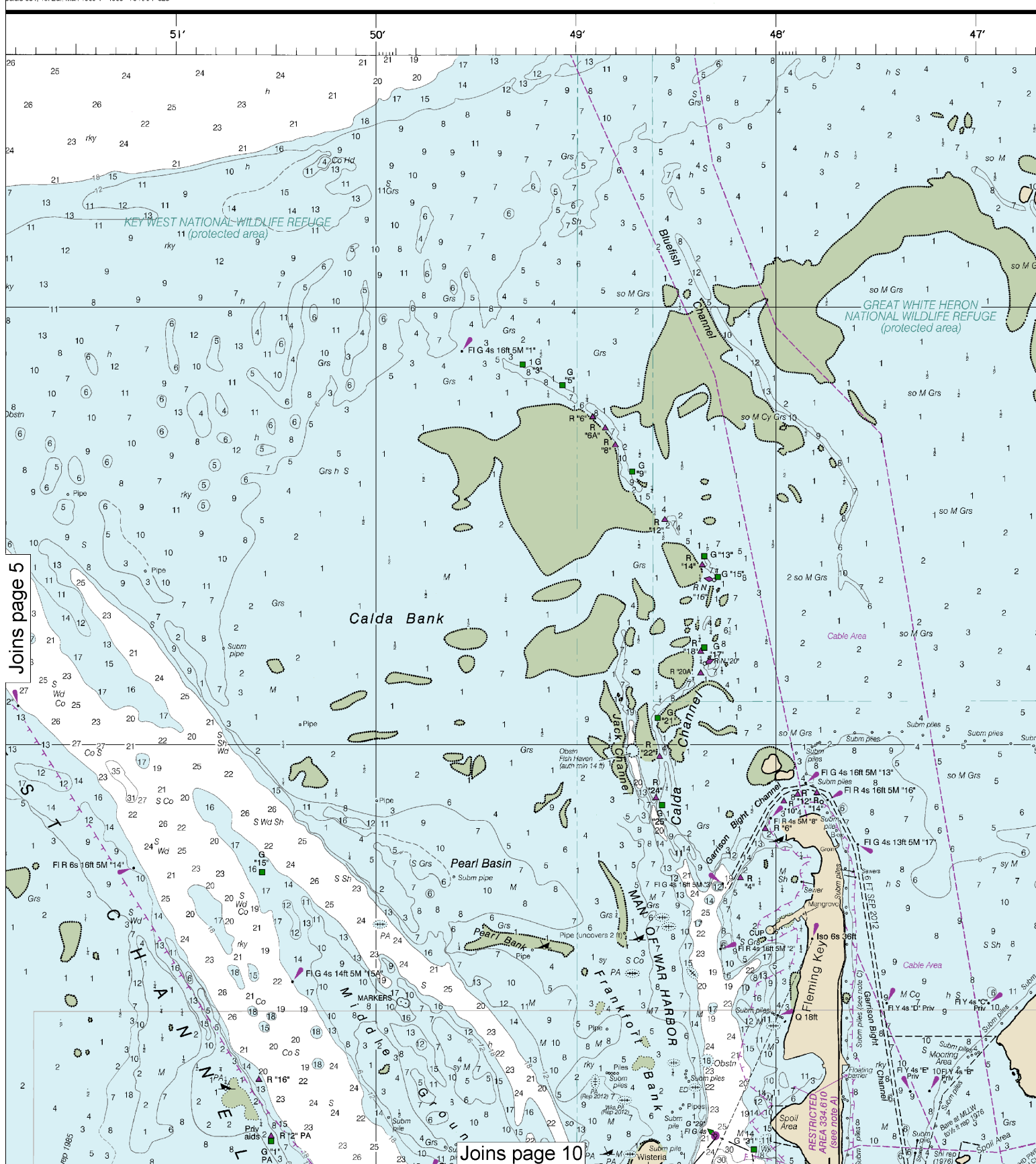


Note: Chart grid lines are aligned with true north.

4



This BookletChart was reduced to 70% of the original chart scale.
The new scale is 1:42857. Barscales have also been reduced and
are accurate when used to measure distances in this BookletChart.



Joins page 5

Joins page 10

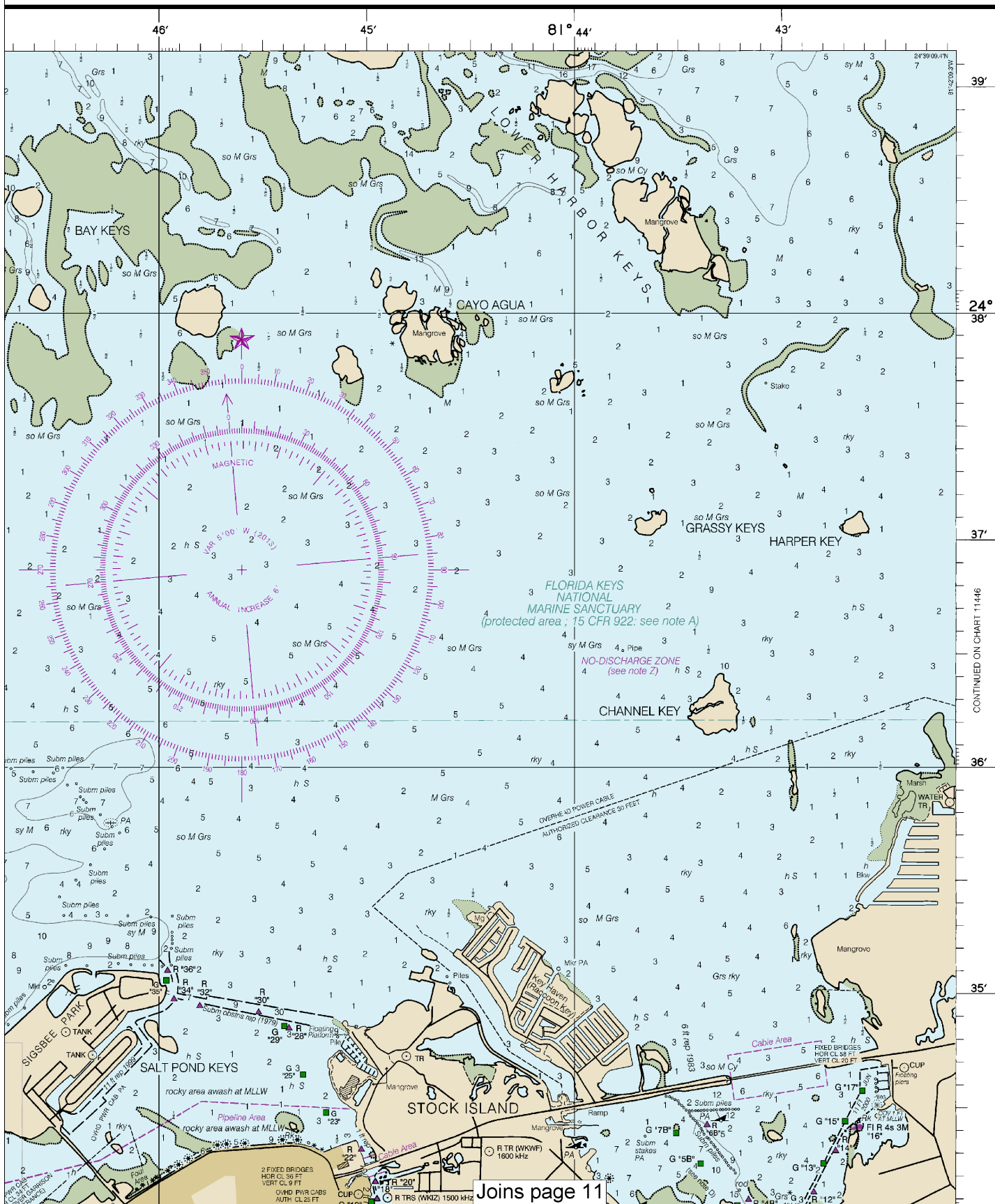
DS TO NAVIGATION
S. Coast Guard Light List for
information concerning aids to

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilots 4 and 5 for important
supplemental information.

For Symbols and Abbreviations see Chart No. 1

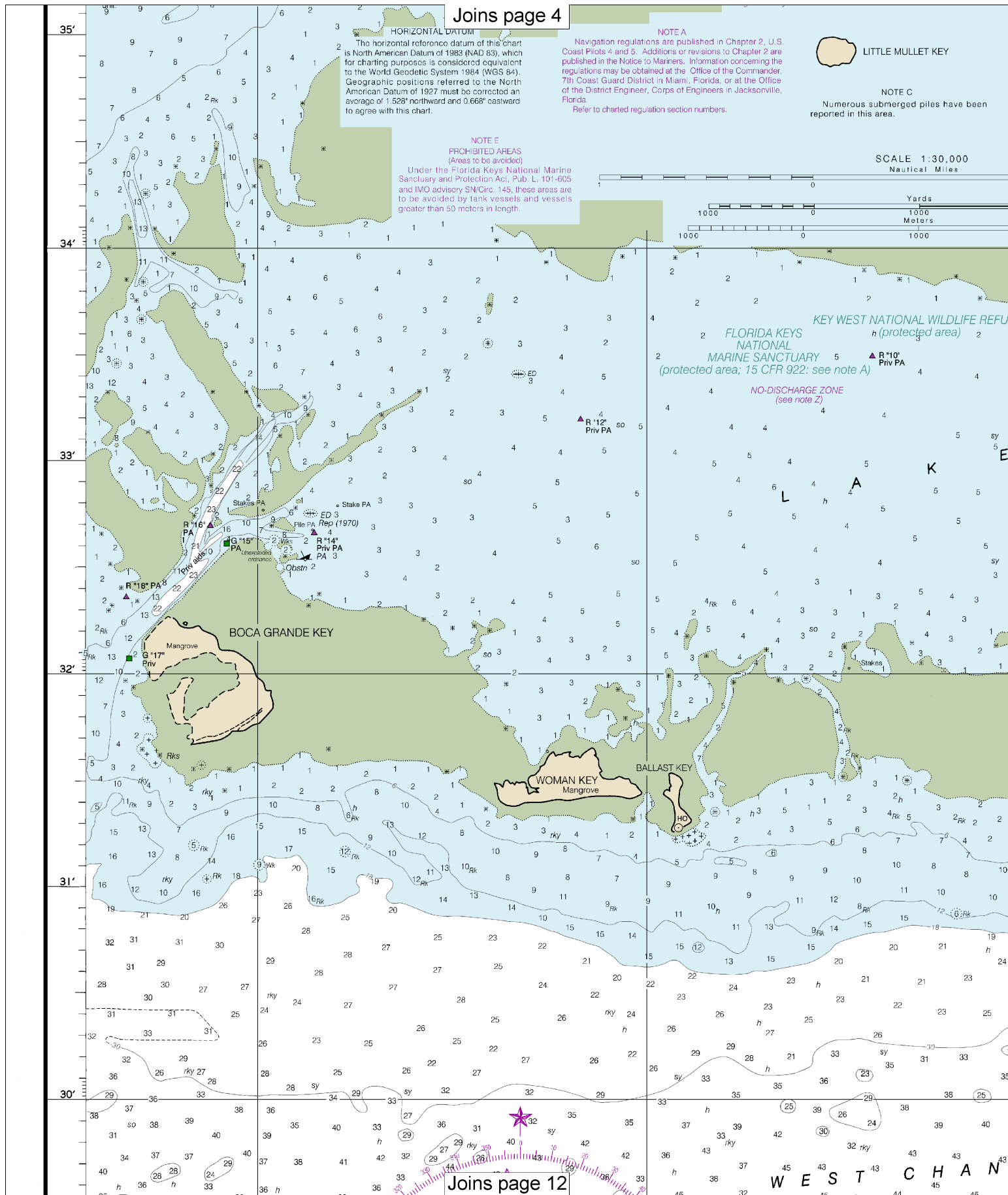
RADAR REFLECTORS
Radar reflectors have been placed on many
floating aids to navigation. Individual radar
reflector identification on these aids has been
omitted from this chart.

COLREGS, 80 740 (see note A)
International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line



Last Correction: 6/15/2016. Cleared through:
LNM: 2416 (6/14/2016), NM: 2716 (7/2/2016)

hand corner are available at nauticalcharts.noaa.gov.



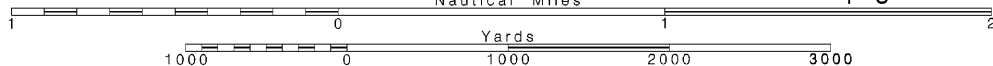
8

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:30,000

See Note on page 5.



Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

Joins page 5

PARTICULARLY SENSITIVE SEA AREA
This chart falls entirely within the limits of a Particularly Sensitive Sea Area (PSSA). A PSSA is an environmentally sensitive area around which mariners should exercise extreme caution. See U.S. Coast Pilot volumes for information regarding this area.

BIG MULLET KEY

ANNUAL INCREASE 6'

MULE KEY

ARCHER KEY

BARRACOUTA KEYS

JOE INGRAM KEY

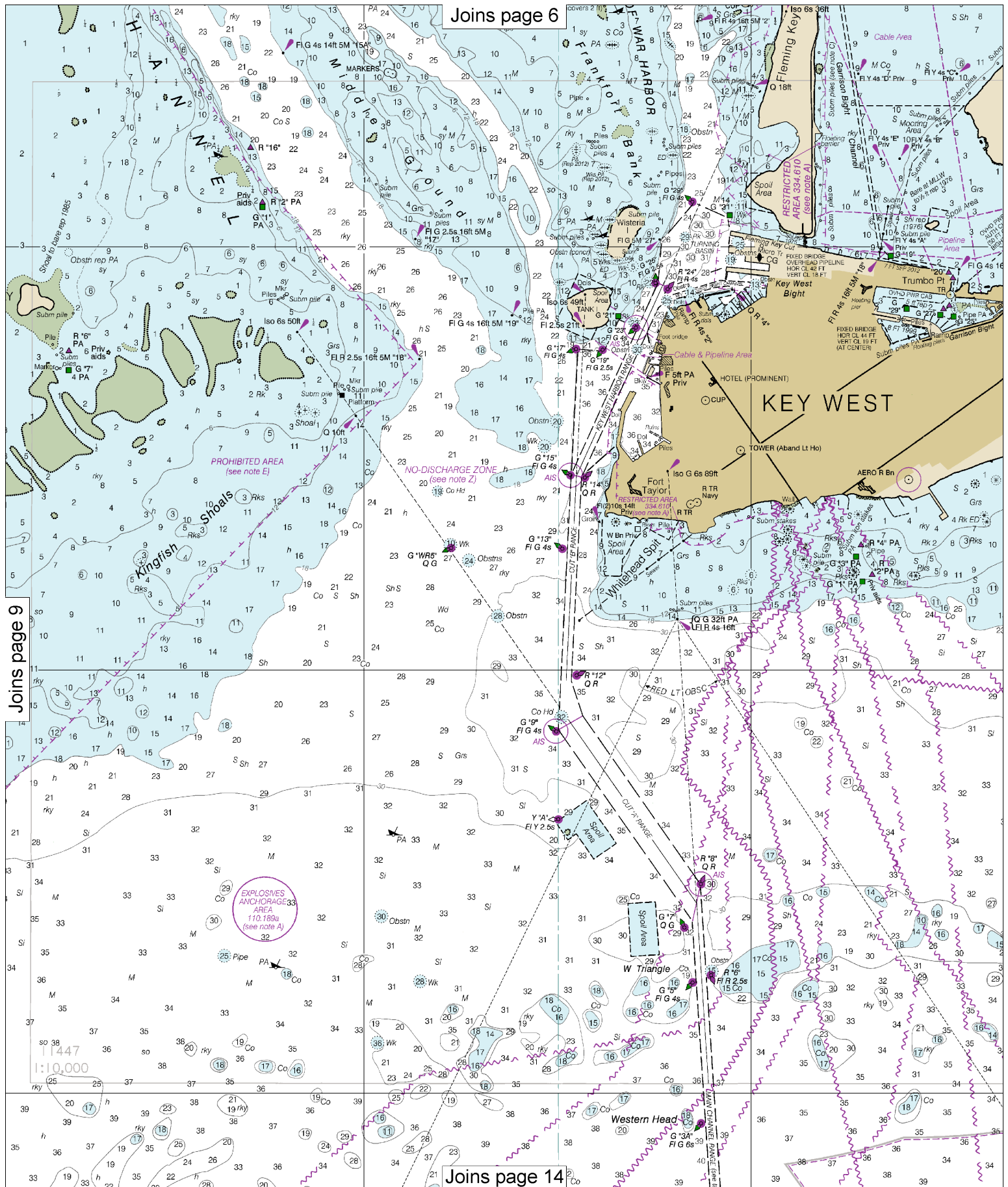
CRAWFISH KEY

MANKEY

PROHIBITED AREA
(see note E)

Joins page 13

Joins page 10



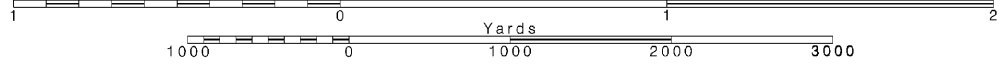
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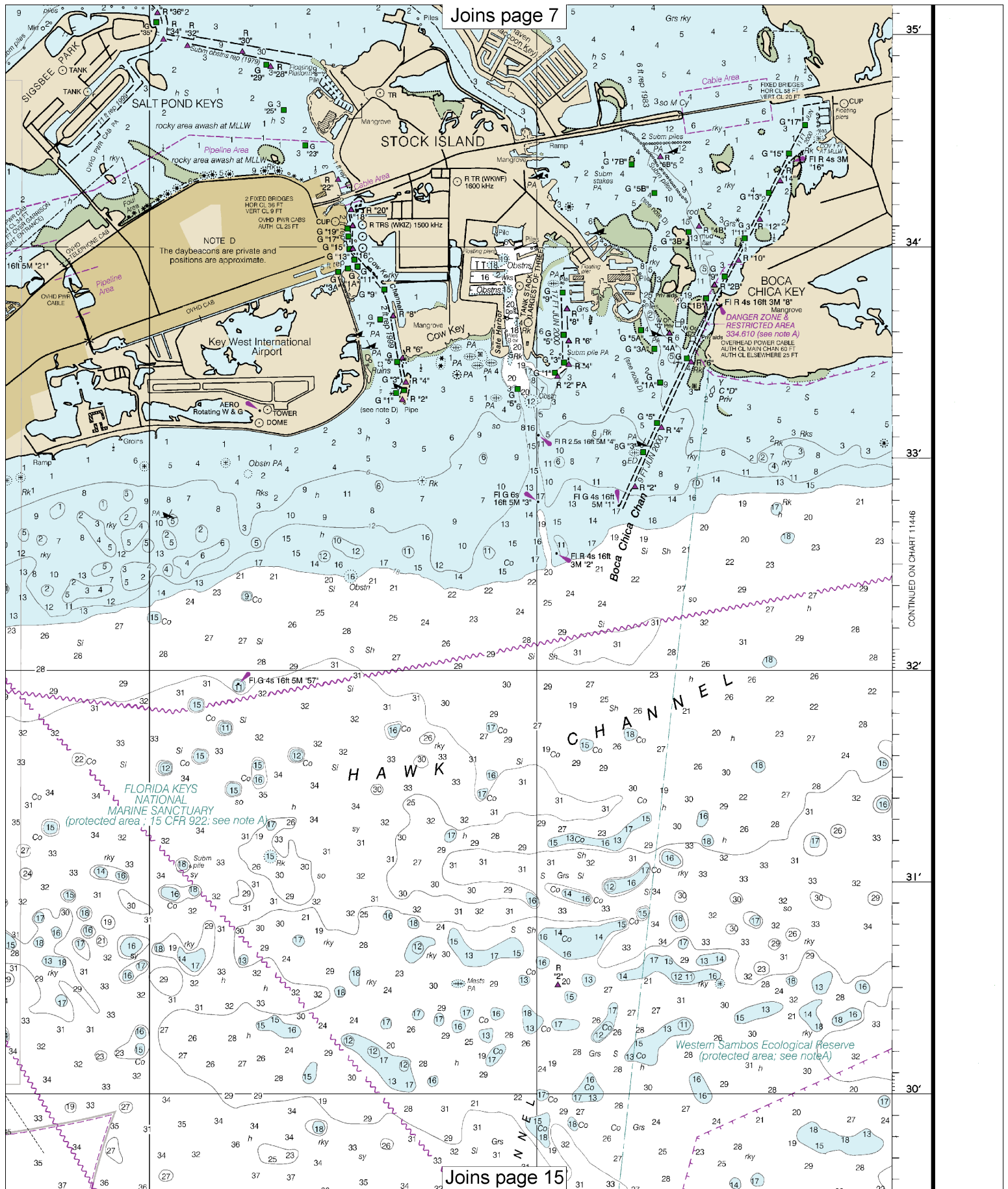
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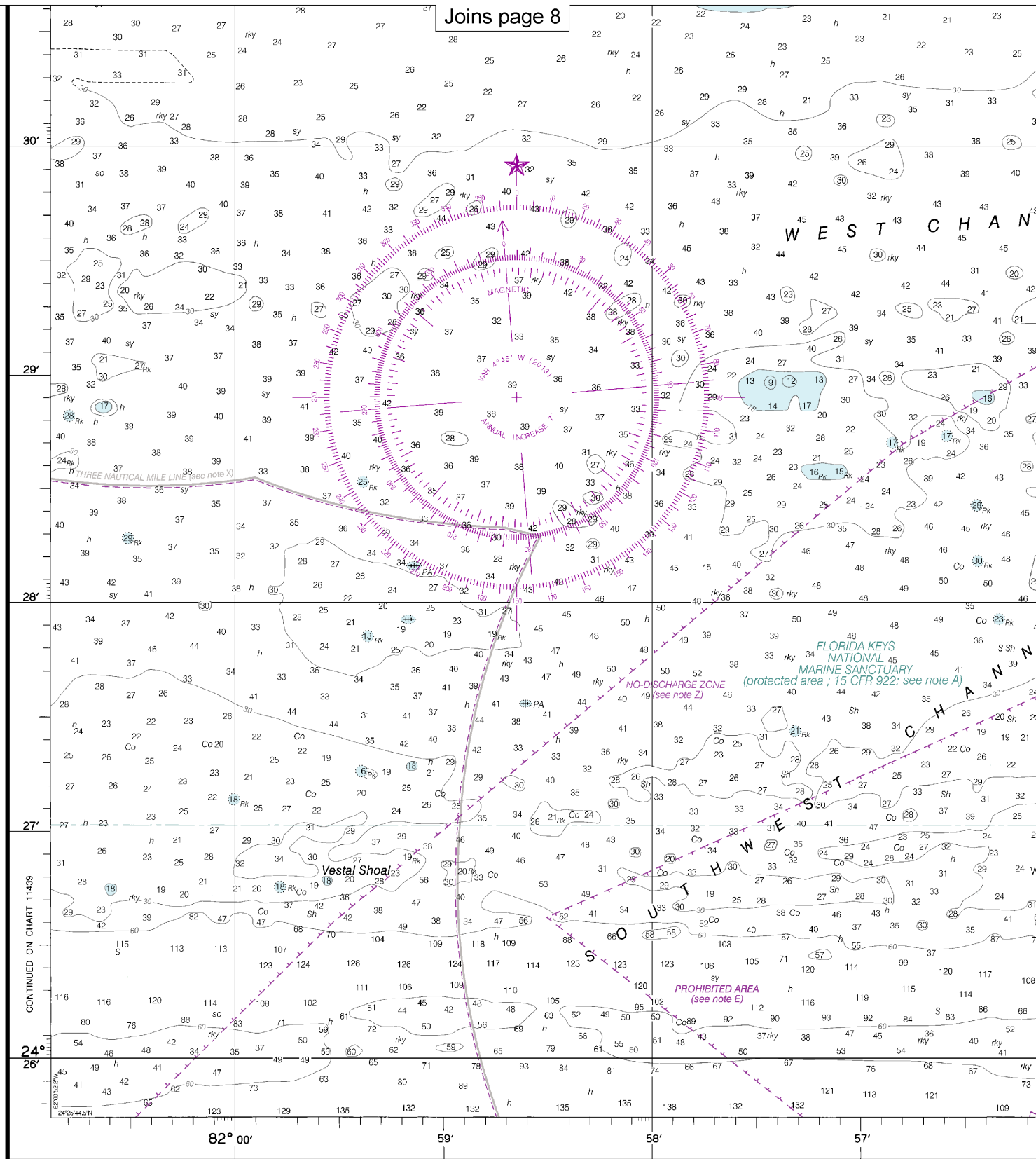
Printed at reduced scale.

SCALE 1:30,000

See Note on page 5.







42nd Ed., Feb. 2013

11441

Last Correction: 6/15/2016. Cleared through:
LNM: 2416 (6/14/2016), NM: 2716 (7/2/2016)

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

NOAA encourages
about this chart at nauticalcharts.noaa.gov

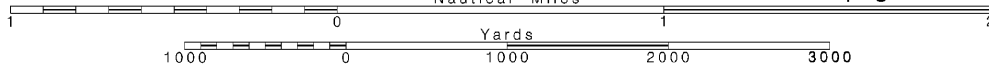
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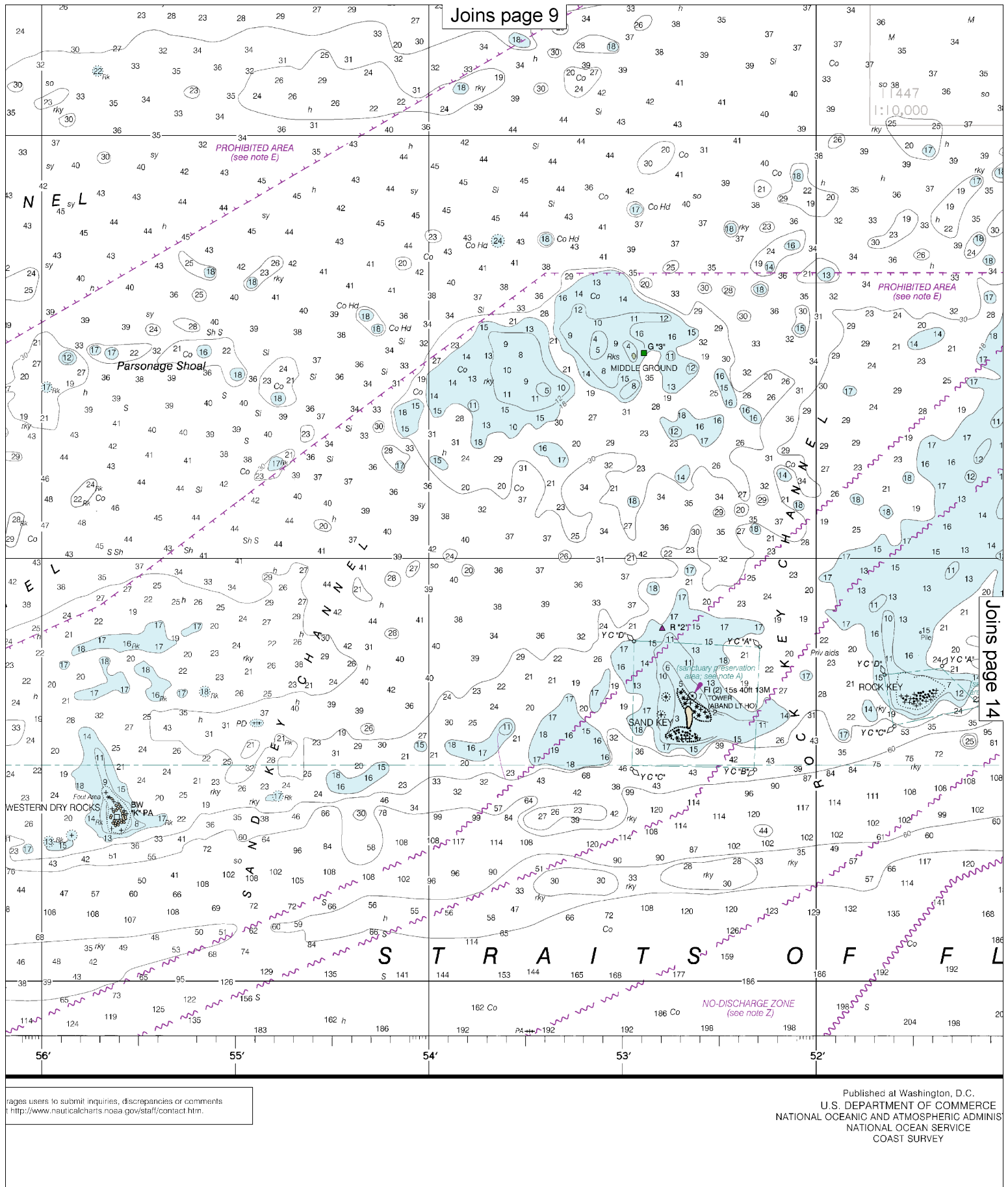
Note: Chart grid
lines are aligned
with true north.

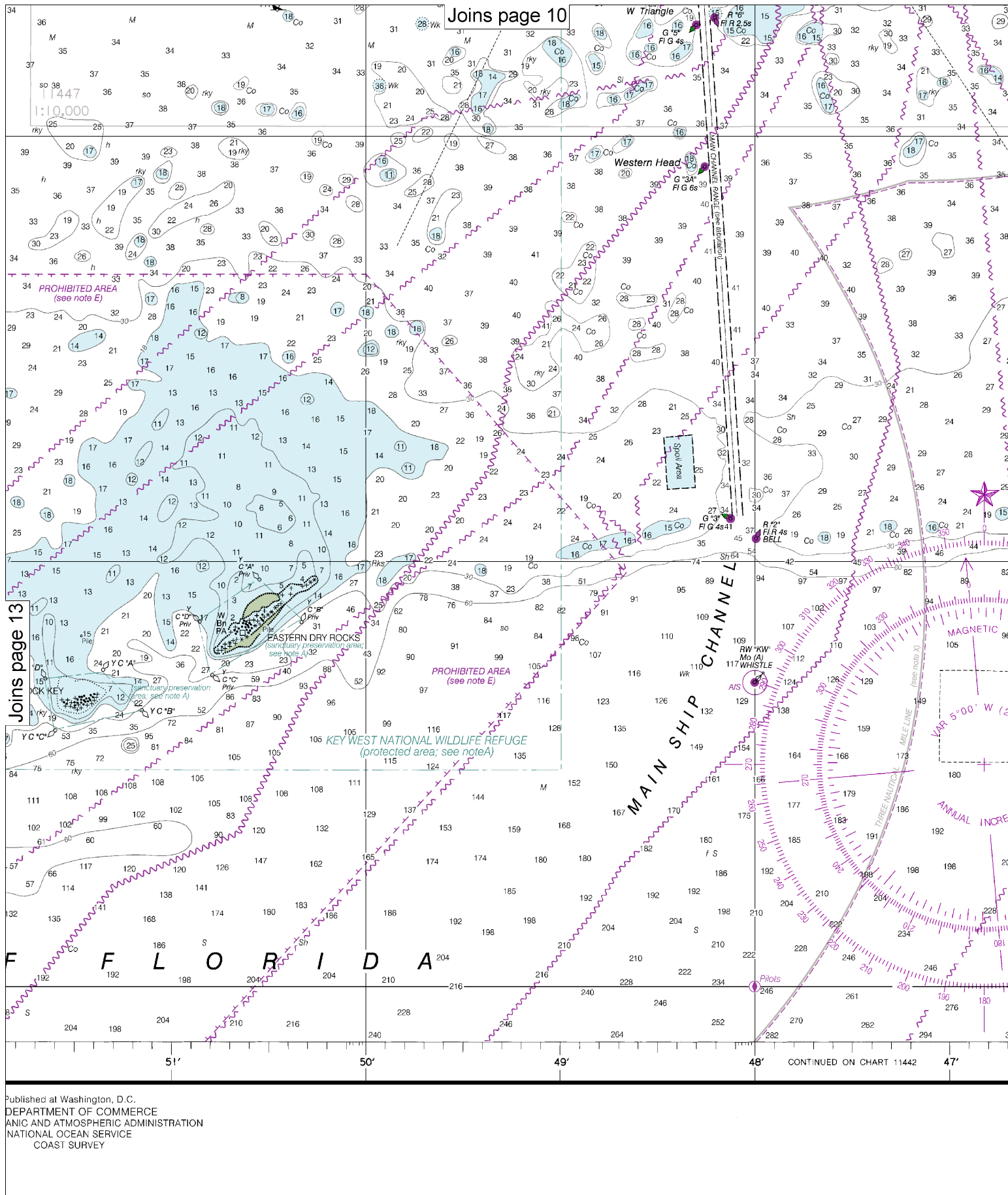
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SCALE 1:30,000

See Note on page 5.







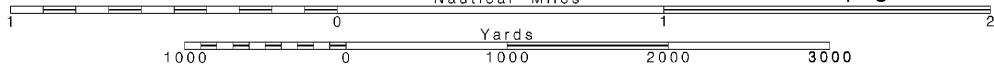
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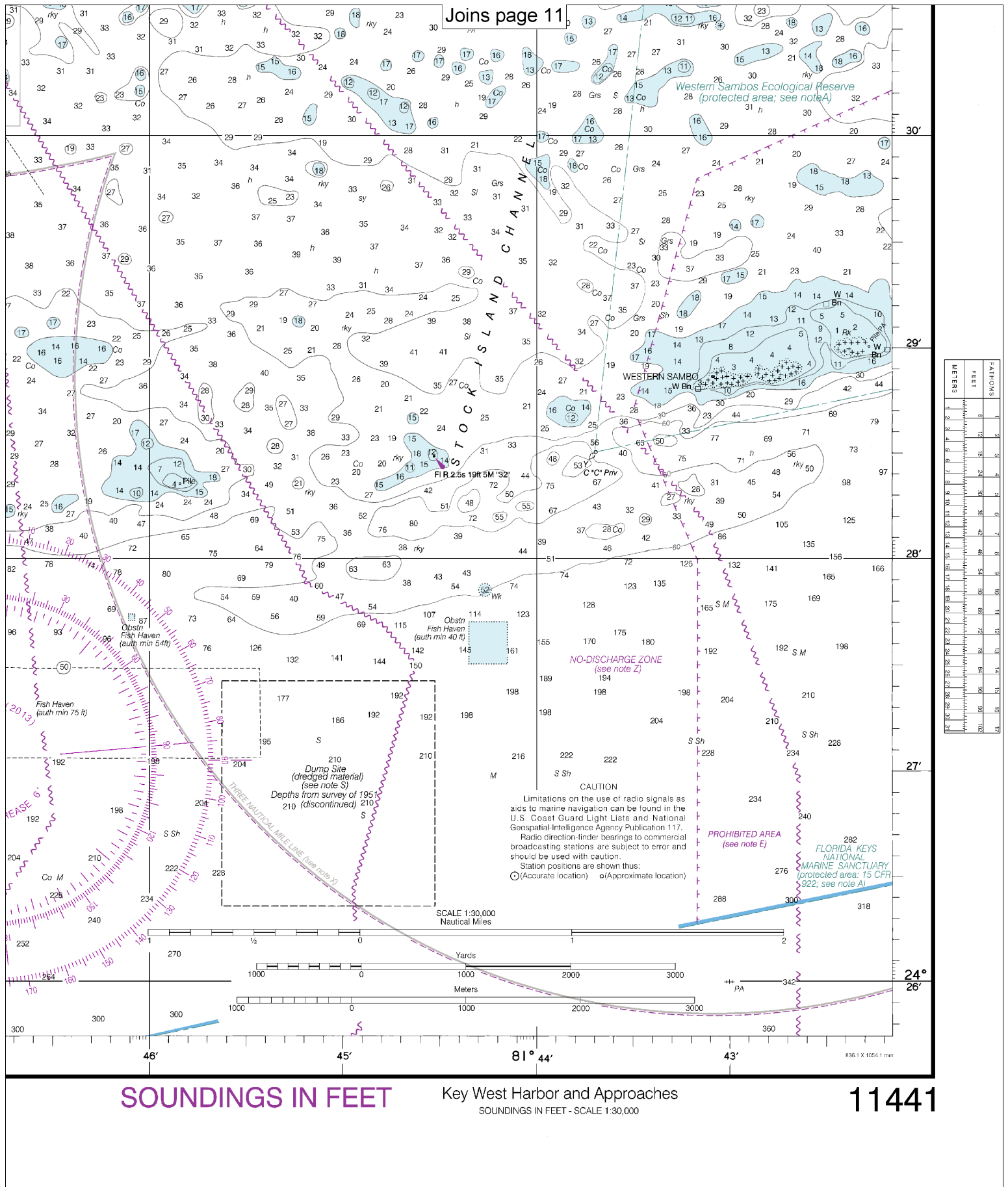
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:30,000

See Note on page 5.







VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

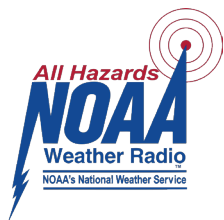
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!

Quick References

Nautical chart related products and information	—	http://www.nauticalcharts.noaa.gov
Interactive chart catalog	—	http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml
Report a chart discrepancy	—	http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx
Chart and chart related inquiries and comments	—	http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs
Chart updates (LNM and NM corrections)	—	http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html
Coast Pilot online	—	http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm
Tides and Currents	—	http://tidesandcurrents.noaa.gov
Marine Forecasts	—	http://www.nws.noaa.gov/om/marine/home.htm
National Data Buoy Center	—	http://www.ndbc.noaa.gov/
NowCoast web portal for coastal conditions	—	http://www.nowcoast.noaa.gov/
National Weather Service	—	http://www.weather.gov/
National Hurricane Center	—	http://www.nhc.noaa.gov/
Pacific Tsunami Warning Center	—	http://ptwc.weather.gov/
Contact Us	—	http://www.nauticalcharts.noaa.gov/staff/contact.htm



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.